

## FIGURE 1

SEQ ID NO: 1

Xaa<sub>1</sub>-Xaa<sub>2</sub>-Xaa<sub>3</sub>-Cys<sub>4</sub>-Xaa<sub>5</sub>-Xaa<sub>6</sub>-Xaa<sub>7</sub>-Cys<sub>8</sub>-Xaa<sub>9</sub>-Xaa<sub>10</sub>-Gly<sub>11</sub>-Xaa<sub>12</sub>-Cys<sub>13</sub>-Xaa<sub>14</sub>-Xaa<sub>15</sub>-  
Xaa<sub>16</sub>-Cys<sub>17</sub>-Xaa<sub>18</sub>-Xaa<sub>19</sub>-R

SEQ ID NO: 2

Arg-Arg Trp-Cys-Tyr-Arg-Lys-Cys-Tyr-Lys-Gly-Tyr-Cys-Tyr-Arg-Lys-Cys-Arg

SEQ ID NO: 3

Lys-Trp-Ala-Phe-Arg-Val-Ala-Tyr-Arg-Gly-Ile-Ala-Tyr-Arg-Arg-Ala-Arg

SEQ ID NO: 4 (GenBank Accession No. AAH20057.1)

MNLQPIFWIGLISSVCCVFAQTDENRCLKANAKSCGECIQAGPN  
CGWCTNSTFLQEGMPTSARCDLLEALKKKGCPPDDIENPRGSKDIKKNKNTNRSKGT  
AEKLPEDITQIQPQQLVLRRLRSGEPTFTLKFKAEDYPIDLYYLMDSLYSMKDDLE  
NVKSLGTDLMNEMRRITSDFRIGFGSFVEKTVMPYISTTPAKLRNPCTSEQNCTSPFS  
YKNVLSLTNKGEVFNELVGKQRISGNLDSPEGGFDAIMQVAVCGSLIGWRNVTRLLVF  
STDAGFHFAGDGKLGGLVLPNDGQCHLENNMYTMSHYDYDPSIAHLVQKLSENNIQT  
FAVTEEFQPVYKELKNLIPKSAVGTLSANSSNVIQLIIDAYNSLSSEVILENGKLSEG  
VTISYKSYCKNGVNGTGENGRKCSNISIGDEVQFEISITSNKPCKDSDFSFKIRPLGF  
TEEEVILQYICECECQSEGIPEPKCHEGNGTFECGACRCNEGRVGRHCECSTDEVN  
SEDMDAYCRKENSSEICSNNGECVCGQCVCVRKRDNTNEIYSGKFCECDNFNCDRNL  
ICGGNGVCKCRVCECNPNYTGSA CDCSLDTSTCEASNGQICNGRGICECGVCKCTDPK  
FQGQTCCEMCQTCLGVCAEHKECVQCRAFNKGEKKDTCTQEC SYFNITKVESRDKLQP  
VQPDVSHCKEKDVDDCWFYFTYSVNGNNEVMVHVVENPECPTGPDIIPIVAGVVAGI  
VLIGLALLLIWKLMLIHDRREFAKFEKEKMNKWDGTGENPIYKSAVTTVVNPKYEGK

SEQ ID NO: 5 (GenBank Accession No. BC020057)

1 agcgggagtc gcggaacagc aggcccgagc ccaccgcgcg gggccccgga cgccgcgcgg  
61 aaaagatgaa tttacaacca attttctgga ttggactgat cagttcagtt tgctgtgtgt  
121 ttgctcaaac agatgaaaat agatgtttaa aagcaaatgc caaatcatgt ggagaatgta  
181 tacaagcagg gccaaattgt ggggtggtga caaatcaac atttttacag gaaggaatgc  
241 ctactttctgc acgatgtgat gatttagaag ccttaaaaaa gaaggggtgc cctccagatg  
301 acatagaaaa tcccagaggc tccaaagata taaagaaaaa taaaaatgta accaaccgta  
361 gcaaaggaac agcagagaag ctcaagccag aggatattac tcagatccaa ccacagcagt  
421 tggtttttgcg attaatgata ggggagccac agacatttac attaaaattc aagagagctg  
481 aagactatcc cattgacctc tactacctta tggacctgtc ttactcaatg aaagacgatt  
541 tggagaatgt aaaaagtctt ggaacagatc tgatgaatga aatgaggagg attacttcgg  
601 acttcagaat tggatttggc tcatttgtgg aaaagactgt gatgccttac attagcacia  
661 caccagctaa gctcaggaac ccttgcaaaa gtgaacagaa ctgcaccagc ccatttagct  
721 acaaaaaatgt gctcagtctt actaataaag gagaagtatt taatgaactt gttggaaaac  
781 agcgcataat tggaaatttg gattctccag aaggtgggtt cgatgccatc atgcaagttg  
841 cagctttgtg atcactgatt ggctggagga atgttacacg gctgctgggt tttccacag  
901 atgcccgggt tcaactttgct ggagatggga aacttgggtg cattgtttta ccaaatgatg  
961 gacaatgtca cctggaaaat aatatgtaca caatgagcca ttattatgat tatccttcta  
1021 ttgctcacct tgtccagaaa ctgagtgaata ataatttca gacaattttt gcagttactg  
1081 aagaatttca gcctgtttac aaggagctga aaaacttgat ccctaagtca gcagtaggaa  
1141 cattatctgc aaattctagc aatgtaatc agttgatcat tgatgcatac aattcccttt  
1201 cctcagaagt cattttggaa aacggcaaat tgtcagaagg agtaacaata agttacaaat  
1261 ctactgcaa gaacggggtg aatggaacag gggaaaatgg aagaaaatgt tccaatattt  
1321 ccattggaga tgaggttcaa tttgaaatta gcataacttc aaataagtgt ccaaaaaagg  
1381 attctgacag ctttaaaatt aggcctctgg gctttacgga ggaagtagag gttattcttc

FIGURE 1 (continued)

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1441 agtacatctg tgaatgtgaa tgccaaagcg aaggcatccc tgaaagtcce aagtgtcatg
1501 aaggaaatgg gacatttgag tgtggcgcg gtgagtgcaa tgaagggcgt gttggtagac
1561 attgtgaatg cagcacagat gaagttaaca gtgaagacat ggatgcttac tgcaggaaag
1621 aaaacagttc agaaatctgc agtaacaatg gagagtgcgt ctgcggacag tgtgtttgta
1681 ggaagaggga taatacaaat gaaattttat ctggcaaatt ctgcgagtgt gataatttca
1741 actgtgatag atccaatggc ttaattttgt gaggaatgg tgtttgcaag tgcgtgtgt
1801 gtgagtgcaa ccccaactac actggcagtg catgtgactg ttctttggat actagtactt
1861 gtgaagccag caacggacag atctgcaatg gccggggcat ctgtgagtgt ggtgtctgta
1921 agtgtacaga tccgaagttt caagggcaaa cgtgtgagat gtgtcagacc tgccttgggtg
1981 tctgtgctga gcataaagaa tgtgttcagt gcagagcctt caataaagga gaaaagaaag
2041 acacatgcac acaggaatgt tcctatttta acattacca ggtagaaagt cgggacaaat
2101 taccccagcc ggtccaacct gatcctgtgt ccattgtaa ggagaaggat gttgacgact
2161 gttgggttcta ttttacgtat tcagtgaatg ggaacaacga ggatcatggt catgttgttg
2221 agaatccaga gtgtccact ggtccagaca tcattccaat tgtagctggt gtggttgcgtg
2281 gaattgttct tattggcctt gcattactgc tgatatggaa gcttttaatg ataattcatg
2341 acagaaggga gtttgctaaa tttgaaaagg agaaaatgaa tgccaaatgg gacacgggtg
2401 aaaatcctat ttataagagt gccgtaacaa ctgtggtcaa tccgaagtat gagggaaaat
2461 gagtactgcc cgtgcaaatc ccacaacact gaatgcaaag tagcaatttc catagtcaca
2521 gttaggttagc tttagggcaa tattgccatg gttttactca tgtgcagggt ttgaaaatgt
2581 acaatatgta taatttttaa aatgttttat tattttgaaa ataattgtgt aattcatgcc
2641 agggactgac aaaagacttg agacaggatg gttattcttg tcagctaagg tcacattgtg
2701 cgtttcttgc cttttcttcc tggactattg aaatcaagct tattggatta agtgatattt
2761 ctatagcgat tgaaagggca atagttaaag taatgagcat gatgagagt tctgttaatc
2821 atgtattaaa actgattttt agctttacaa atatgtcagt ttgcagttat gcagaatcca
2881 aagtaaattgt cctgctagct agttaaggat tgttttaaat ctggtatttt gctatttgcc
2941 tgttagacat gactgatgac atatctgaaa gacaagtatg ttgagagtgt ctggtgtaaa
3001 atacgtttga aatagttgat ctacaaaggc catgggaaaa attcagagag ttagggaagga
3061 aaaaccaata gctttaaaac ctgtgtgcca ttttaagagt tacttaattg ttggttaactt
3121 ttatgccttc actttacaaa ttcaagcctt agataaaaaga accgagcaat tttctgctaa
3181 aaagtccttg atttagcact atttacatac aggccatact ttacaaagta tttgctgaat
3241 ggggaccttt tgagttgaat ttattttatt attttttatt tgtttaatgt ctggtgcttt
3301 ctatcacctc ttctaactct ttaattgtatt tgtttgcaat tttggggtaa gactttttt
3361 atgagtactt tttctttgaa gtttttagcg tcaatttgcc tttttaatga acatgtgaag
3421 ttatactgtg gctatgcaac agctctcacc tacgcgagtc ttactttgag ttagtgccat
3481 aacagaccac tgtatgttta cttctcacca tttgagttgc ccactctgtt tcacactagt
3541 cacattcttg ttttaagtgc ctttagtttt aacagttcac tttttacagt gctatttact
3601 gaagttattt attaaatatg cctaaaatac ttaaatacgga aaaaaaaaaa aaaaaa

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SEQ ID NO: 6 (GenBank Accession No. NP\_000600)

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1 mnakvvvvlv lvltalclsd gkpvslysc pcrffeshva ranvkhklil ntpncalqiv
61 arlknmrqrv cidpklkwiq eylekalnkr fkm

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SEQ ID NO: 7 (GenBank Accession No. NM\_000609)

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1 tctccgtcag ccgcattgcc cgctcggcgt ccggcccccg acccggtgctc gtccgccccg
61 ccgccccgcc gccgcgccca tgaacgccaa ggtcgtgggtc gtgctgggtcc tctgtgctgac
121 cgcgctctgc ctcagcgacg ggaagcccg cagcctgagc tacagatgcc catgccgatt
181 cttcgaaagc catgttgcca gagccaacgt caagcatctc aaaattctca aactccaaa
241 ctgtgccctt cagattgtag ccggtgtgaa gaacaacaac agacaagtgt gcattgacct
301 gaagctaaag tggattcagg agtacctgga gaaagcttta aacaagagggt tcaagatgtg
361 agaggggtcag acgcctgagg aacccttaca gtaggagccc agctctgaaa ccagtgttag
421 ggaagggcct gccacagcct cccctgccag ggcagggccc caggcattgc caagggcttt
481 gttttgcaca ctttgccata ttttcaccat ttgattatgt agcaaaatac atgacattta
541 tttttcattt agtttgatta ttcatgttca ctggcgacac gtagcagctt agactaaggc
601 cattattgta cttgccttat tagagtgtct ttccacggag ccactcctct gactcagggc
661 tcctgggttt tgtattctct gagctgtgca ggtggggaga ctgggctgag ggagcctggc

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FIGURE 1 (continued)

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721 cccatggtca gccctagggg ggagagccac caagagggac gcctgggggt gccaggacca
781 gtcaacctgg gcaaagccta gtgaaggctt ctctctgtgg gatgggatgg tggagggcca
841 catgggaggg tcaccccttt ctccatccac atgggagccg ggtctgcctc tctctggagg
901 gcagcagggc taccctgagc tgaggcagca gtgtgaggcc agggcagagt gagaccagc
961 cctcatcccg agcacctcca catcctccac gttctgtctc tcattctctg tctcatccat
1021 catcatgtgt gtccacgact gtctccatgg ccccgcaaaa ggactctcag gaccaaagct
1081 ttcatgtaaa ctgtgcacca agcaggaaat gaaaatgtct tgtgttacct gaaaacactg
1141 tgcacatctg tgtcttgtgt ggaatattgt ccattgtcca atcctatgtt tttgttcaaa
1201 gccagcgtcc tcctctgtga ccaatgtctt gatgcatgca ctgttcccc tgtgcagccg
1261 ctgagcgagg agatgtcctt tgggcccttt gagtgcagtc ctgatcagag cctgggtcct
1321 ttggggtgaa ctaccttggg tccccactg atcacaaaaa catggtgggt ccatgggcag
1381 agcccaaggg aattcggtgt gcaccagggg tgacccagga ggattgtctc cccatcagtg
1441 ctccctcaca tgtcagtacc ttcaaatagg ggccaagccc agcactgtct gaggaaaaa
1501 agcattcaca acttgttttt gggttttaaa acccagtcga caaaataacc aatcctggac
1561 atgaagattc tttcccaatt cacatctaac ctcatcttct tcaccatttg gcaatgccat
1621 catctcctgc ctctcctctg ggccctctct gctctgcgtg tcacctgtgc ttcgggccct
1681 tcccacagga catttctcta agagaacaat gtgctatgtg aagagtaagt caacctgcct
1741 gacatttgga gtgttcccc cccactgagg gcagtcgata gagctgtatt aagccactta
1801 aaatgttcac ttttgacaaa ggcaagcact tgtgggtttt tgttttgttt ttcattcagt
1861 cttacgaata cttttgccct ttgattaaag actccagtta aaaaaattt taatgaagaa
1921 agtggaaaaa aaggaagtca aagcaaggaa actatgtaac atgtaggaag taggaagtaa
1981 attatagtga tgtaatcttg aattgtaact gttcgtgaat ttaataatct gtagggtaat
2041 tagtaacctg tgtaagtatt tttcataagt atttcaaatt ggagcttcat ggcagaaggc
2101 aaacccatca acaaaaattg tcccttaaac aaaaattaaa atcctcaatc cagctatggt
2161 atattgaaaa aatagagcct gagggatctt tactagttat aaagatacag aactctttca
2221 aaaccttttg aaattaacct ctactatac cagtataatt gagttttcag tggggcagtc
2281 attatccagg taatccaaga tattttaaaa tctgtcacgt agaacttgga tgtacctgcc
2341 cccaatccat gaaccaagac cattgaattc ttggttgagg aaacaaacat gaccctaaat
2401 cttgactaca gtcaggaaaag gaatcatttc tatttctcct ccatgggaga aaatagataa
2461 gagtagaaac tgcagggaaa attatttgca taacaattcc tctactaaca atcagctcct
2521 tcctggagac tgcccagcta aagcaatatg catttaaata cagtcttcca tttgcaaggg
2581 aaaagtctct tgtaatccga atctcttttt gctttogaac tgctagtcaa gtgcgtccac
2641 gagctgttta ctagggatcc ctcatctgtc cctccgggac ctggtgctgc ctctacctga
2701 cactcccttg ggctccctgt aacctcttca gaggccctcg ctgccagtc tgtatcagga
2761 cccagaggaa ggggccagag gctcgttgac tggctgtgtg ttgggattga gtctgtgcca
2821 cgtgtatgtg ctgtggtgtg tccccctctg tccaggcact gagataccag cgaggaggct
2881 ccagagggca ctctgcttgt tattagagat tacctcctga gaaaaaagct tccgcttgga
2941 gcagaggggc tgaatagcag aaggttgcac ctcccccaac cttagatgtt ctaagtcttt
3001 ccattggatc tcattggacc cttccatggg gtgatcgtct gactggtgtt atcacctggg
3061 gctccctgac tgggagttga tcgcctttcc cagggtgtac acccttttcc agctggatga
3121 gaatttgagt gctctgatcc ctctacagag ctccctgac tcattctgaa ggagcccat
3181 tcctgggaaa tattccctag aaacttccaa atccccaaag cagaccactg ataaaaccat
3241 gtagaaaaat tgttattttg caacctcgct ggactctcag tctctgagca gtgaatgatt
3301 cagtgttaaa tgtgatgaat actgtatttt gtattgtttc aagtgcactc cccagataat
3361 gtgaaaatgg tccaggagaa ggccaattcc tatacgagc gtgcttttaa aaataaataa
3421 gaaacaactc tttgagaaac aacaatttct actttgaagt cataccaatg aaaaaatgta
3481 tatgcactta taattttcct aataaagttc tgtactcaaa tgta

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SEQ ID NO: 8 (GenBank Accession No. AAH55419.1)

MAWEARREPGPRRAAVRETVMLLLCLGVPTGRPYNVDTESALLY  
QGPHNTLFGYSVVLHSHGANRWLLVGAPTANWLANASVINPGAIYRCRIGKNPGQTCE  
QLQLGSPNGEPCGKTCLEERDNQWLGVTLRQPGENGSIIVTCGHRWKNIFYIKNENKL  
PTGGCYGVPPDLRTELSKRIAPCYQGSISKYRART

SEQ ID NO: 9 (GenBank Accession No. BC055419)

1 gggggctctt gctgagccca gagccatccc gcgctctgcg ggctgggagg cccgggcccag

**FIGURE 1 (continued)**

61 gacgcgagtc ctgcgcagcc gaggttcccc agcgccccct gcagccgcgc gtaggcagag  
121 acggagcccc gccctgcgcc tccgcaccac gcccgggacc ccaccagcg gcccgtagcc  
181 ggagaagcag cgcgagcacc cgaagctccc ggctggcggc agaaaccggg agtggggccg  
241 ggcgagtgcg cggcatccca ggccggcccc aacgctccgc ccgcggtggg ccgacttccc  
301 ctccctcttc ctctctcctt cctttagccc gctggcgccg gacacgctgc gcctcatctc  
361 ttggggcggtt cttccccgtt ggccaaccgt cgcaccccg gcaactttgg ggtagtggcc  
421 gtttagtggt gaatgttccc caccgagagc gcatggcttg ggaagcgagg cgcgaaccg  
481 gccccgaag ggccgcccgtc cgggagacgg tgatgctgtt gctgtgcctg ggggtcccga  
541 ccggccgccc ctacaacgtg gacactgaga gcgcgctgct ttaccagggc cccacaaca  
601 cgctgttcgg ctactcgggtc gtgctgcaca gccacggggc gaaccgatgg ctccatagtg  
661 gtgcgcccac tgccaactgg ctgcaccaac cttcagtgat caatcccggg gcgatttaca  
721 gatgcaggat cggaaagaat cccggccaga cgtgcgaaca gctccagctg ggtagcccta  
781 atggagaacc ttgtggaaag acttggttgg aagagagaga caatcagtg ttgggggtca  
841 cactttccag acagccagga gaaaatggat ccacgtgac ttgtgggcat agatggaaaa  
901 atatatatta cataaagaat gaaaataagc tccccactgg tggttgctat ggagtcccc  
961 ctgatttacg aacagaactg agtaaaagaa tagctccgtg ttatcaaggt agcatcagca  
1021 agtacagagc taggacataa cagaagttag cagaattggg gtgaatgtca acagagcatg  
1081 tcagaggata tctgcagcaa aactaaaatc caacaatgcg tctttaggag ctaagaaaca  
1141 tatgaatgca aattcataat tttctaacca ccctcactct caaaaaaaaaa tccctcagca  
1201 cgcaaagaaa aatttttattg gttggcaaaa ctttggccaa gtattttgagt tcaattatgg  
1261 gtgctaataa gactttggtc tttcttcctt ggaatgtgat gtcacagagc agcttatatt  
1321 acatatattc ctattttgcc ttcggatacc caaaagataa aaaagtgaat attgattctc  
1381 agttgcaata aaactcagtc ttgatttctg caaaaaaaaaa aaaaaaa

SEQ ID NO: 10 (GenBank Accession No. AAH20968.1)

MEGISIYTSNYTEEMSGSDYDSMKEPCFREENANFNKIFLPTI  
YSIIFLTGIVGNGLVILVMGYQKKLRSM TDKYRLHLSVADLLFVITLPFWAVDAVANW  
YFGNFLCKAVHVIYTVNLYSSVLILAFISLDRYLAIHVHATNSQRPRLLAEKVVYVGV  
WIPALLLTIPDFIFANVSEADDRYICDRFYPNDLWVVVFQFHIMVGLILPGIVILSC  
YCIISKLSHSGKHQKRKALKTTVILILAFFACWLPYYIGISIDSFILLEI IKQGEF  
ENTVHKWISITEALAFFHCCLNPILYAF LGAKFKTSAQHALTSVSRGSSLKILSKGKR  
GGHSSVSTESSESSFHSS

SEQ ID NO: 11 (GenBank Accession No. BC020968)

1 ccgagggcct gagtgtcca gtagccaccg catctggaga accagcggtt accatggagg  
61 ggatcagtat atacacttca gataactaca ccgaggaaat gggctcaggg gactatgact  
121 ccatgaagga accctgtttc cgtgaagaaa atgctaattt caataaaatc ttcttgccca  
181 ccatctactc catcatcttc ttaactggca ttgtgggcaa tggattggtc atcctgggtca  
241 tgggttacca gaagaaactg agaagcatga cggacaagta caggctgcac ctgtcagtg  
301 ccgacctcct ctttgtcatc acgcttccct tctgggcagt tgatgccgtg gcaaaactgt  
361 actttgggaa ctctcatatg aaggcagtc atgtcatcta cacagtcaac ctctacagca  
421 gtgtcctcat cctggccttc atcagctctg accgctacct ggccatcgtc cacgccacca  
481 acagtcagag gccaaaggaag ctgttggctg aaaaggtggg ctatgttggc gtctggatcc  
541 ctgccctcct gctgactatt cccgacttca tctttgccaa cgtcagtgag gcagatgaca  
601 gatatatctg tgaccgcttc taccccaatg acttgtgggt ggttgtgttc cagtttcagc  
661 acatcatggg tggccttata ctgcctggta ttgtcatcct gtctgtctat tgcattatca  
721 tctccaagct gtcacactcc aaggggccacc agaagcgcaa ggccctcaag accacagtca  
781 tctcatcctt ggctttcttc gcctgttggc tgccttacta cattgggatc agcatcgact  
841 ccttcatcct cctggaaatc atcaagcaag ggtgtgagtt tgagaacact gtgcacaagt  
901 ggatttccat caccgaggcc ctagctttct tccactgttg tctgaacccc atcctctatg  
961 ctttccttgg agccaaatct aaaacctctg cccagcacgc actcacctct gtgagcagag  
1021 ggtccagcct caagatcctc tccaaaggaa agcgaggtgg acattcatct gtttccactg  
1081 agtctgagtc ttcaagtttt cactccagct aacacagatg taaaagactt ttttttatac  
1141 cataaataac ttttttttaa gttacacatt tttcagatat aaaagactga ccaatttgt  
1201 acagttttta ttgcttgggt gatattttgtc ttgtgttct ttagtttttg tgaattttaa  
1261 ttgacttatt tatataaatt ttttttgggt catattgatg tgtgtctagg caggacctgt

**FIGURE 1 (continued)**

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1321 ggccaagttc ttagttgctg tatgtctcgt ggtaggactg tagaaaaggg aactgaacat
1381 tccagagcgt gtagtgaatc acgtaaagct agaaatgatc cccagctggt tatgcataga
1441 taatctctcc attcccgtgg aacgtttttc ctgttcttaa gacgtgattt tgctgtagaa
1501 gatggcactt ataaccaaaag cccaaagtgg tatagaaatg ctggtttttc agttttcagg
1561 agtggggttg tttcagcacc tacagtgtac agtcttgtat taagttgtta ataaaagtac
1621 atgttaaact taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aa
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